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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/652,116 08/29/20		08/29/2003	003 Cheorl-Ho Kim	WON-FF-2002-US/P-113	1837	
25538	7590	07/29/2004		EXAMINER		
CHERYL I		PHD	WALLENHORST, MAUREEN			
PO BOX 806 PELHAM, NY 10803				ART UNIT	PAPER NUMBER	
•				1743		

DATE MAILED: 07/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	ME				
		, ,					
Office Action Summary	10/652,116 Examiner	KIM ET AL. Art Unit					
,		1743					
The MAILING DATE of this communication app	Maureen M. Wallenhorst ears on the cover sheet with the c		dress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	of(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_•						
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.						
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-7 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>6 and 7</u> is/are rejected.							
7) Claim(s) <u>1-5</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	·.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	• • • • • • • • • • • • • • • • • • • •	., .,					
1. Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents	have been received in Application	on No					
3. Copies of the certified copies of the prior	•	d in this National S	Stage				
application from the International Bureau	` ' ' '						
* See the attached detailed Office action for a list of	or the certified copies not receive	a.					
Address and a							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Motice of Informal Pa 6) Other:	atent Application (PTO-	152)				
							

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- 1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 2. The abstract of the disclosure is objected to because the full meaning for the abbreviation "ART" (assisted reproduction technology) should be included in the abstract. Correction is required. See MPEP § 608.01(b).
- 3. Claims 1-7 are objected to because of the following informalities: In independent claims 1, 5 and 6, the full meaning for MMP-9 (matrix metalloproteinase 9) should be included for clarification purposes. The preamble of claim 2 is inconsistent with the preamble of independent claim 1 since claim 1 recites a method for <u>predicting</u> pregnancy, and claim 2 recites a method for <u>diagnosing the chances</u> of pregnancy. See this same problem in claim 3. On line 2 of claim 3, the word "follicles" should be changed to the singular form –follicle—since independent claim 1 only recites a single follicle. On lines 1-2 of claim 6, the phrase "protein substrate from MMP-9" should be changed to –protein substrate for MMP-9—in order to make proper sense. In claim 7, the preamble "The diagnostic kit of diagnosing the chances of pregnancy" should be changed to –The diagnostic kit for predicting pregnancy outcome—so as to be consistent with the preamble of independent claim 6.

Appropriate correction is required.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by the Molecular Probes brochure on the EnzChek Gelatinase/Collagenase Assay Kit.

The EnzChek Gelatinase/Collagenase Assay Kit by Molecular Probes is used to measure the gelatinase or collagenase activity of matrix metalloproteinases (MMPs). The kit contains as a component a protein substrate, which can be digested by an MMP. The protein substrate is gelatin, collagen I or collagen IV. See pages 1-2 of the brochure.

- Claims 1-5 are allowable over the prior art of record since none of the prior art of record 7. teaches or fairly suggests a method for predicting pregnancy outcome in a human female subject undergoing assisted reproductive technology by measuring the activity of matrix metalloproteinase-9 (MMP-9) in the follicular fluid from a follicle of a mature oocyte and predicting from the activity of MMP-9 the probability of establishing pregnancy.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Please make note of: Strauss, III et al (US Patent nos. 5,698,404, 6,140,099 and 5,641,636) who teach that MMP-9 is involved in fetal membrane rupture in a gestative female. Application/Control Number: 10/652,116

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examiner should be directed to Maureen M. Wallenhorst whose telephone number is 571-272-

Any inquiry concerning this communication or earlier communications from the

1266. The examiner can normally be reached on Monday-Wednesday from 6:30 AM to 4:00

PM.

9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jill Warden, can be reached on 571-272-1267. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maureen M. Wallenhorst

Primary Examiner

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mmw

July 26, 2004

mauren m. Wallenhorst MAUREEN M. WALLENHORST PRIMARY EXAMINER

GROUP 199 /200

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